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**(54) TACTILE PERCEPTION  
PRESENTING METHOD  
AND TACTILE  
PERCEPTION  
PRESENTATION TYPE  
TRACK BALL DEVICE**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide tactile perception presenting method and a tactile perception presentation type track ball device by which an operator can feel a click and can stop and permit the move of a pointer.

**SOLUTION:** In a housing box 18, this device is provided with a ball 11 as the medium of rotational moving operation on a screen, an encoder 12 for making the amount of rotations in an X-axis direction into information from the rotations of the ball 11, an encoder 13 for making the amount of rotations in a Y-axis direction into information from the rotations of the ball 11, an upper stopper 14 arranged at the upper part of the ball 11 for suppressing rotations at the time of press contact, a lower stopper 15

confronted just under the ball 11 so as to freely move up and down for suppressing the rotations at the time of upward move, a solenoid 16 for vertically moving the lower stopper 15, and a distortion sensor 17 for detecting distortion in the rotation of the ball 11.

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